DataScEd4CiEn

Co-funded by the European Union

NEWSLETTER

March 2026/vol. 004

DATA SCIENCE EDUCATION IN STEAM FOR CIVIC ENGAGEMENT AND SOCIAL JUSTICE FROM THE EARLY YEARS

Project Number: 2023-1-CY01-KA220-SCH-000164724

Welcome to the fourth edition of the DataScEd4CiEn newsletter!

Empowering Educators: Professional Development in Action

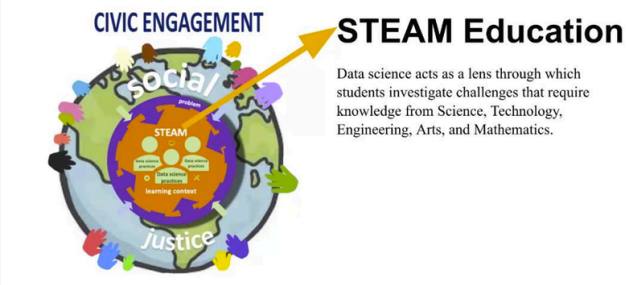
The DataScEd4CiEn Professional Development programme brought together educators from across Europe in a series of three interactive sessions designed to support the integration of data science into STEAM education.
Through a combination of theoretical foundations, practical tools, and real classroom applications, participants developed the knowledge and confidence to implement data science for civic engagement and social justice in their teaching.
From conceptual frameworks to hands-on classroom strategies, the PD series fostered a growing transnational community of educators committed to meaningful, data-driven learning.

SESSION 1: Building Foundations in Data Science Education

Date: 2nd February 2026

The first session introduced participants to the core principles of data science education within STEAM, setting the foundation for the programme.

Dr Aisling Leavy presented the DataScEd4CiEn conceptual framework, highlighting how data science can empower students to understand and respond to real-world challenges.



Dr Maria Meletiou led Module 2: Pedagogy for STEAM and Data Science for Civic Engagement, focusing on teaching approaches that connect data with socially relevant issues. She also introduced the Design Thinking methodology, supporting inquiry-based, student-centered learning.

Participants reflected on their own teaching contexts and began preparing ideas for classroom implementation.

European University Cyprus · MIC Mary Immaculate College Limerick, Ireland · Hellenic Republic National and Kapodistrian University of Athens · Universität Münster · La Salle Buen Consejo Puerto Real · The English School

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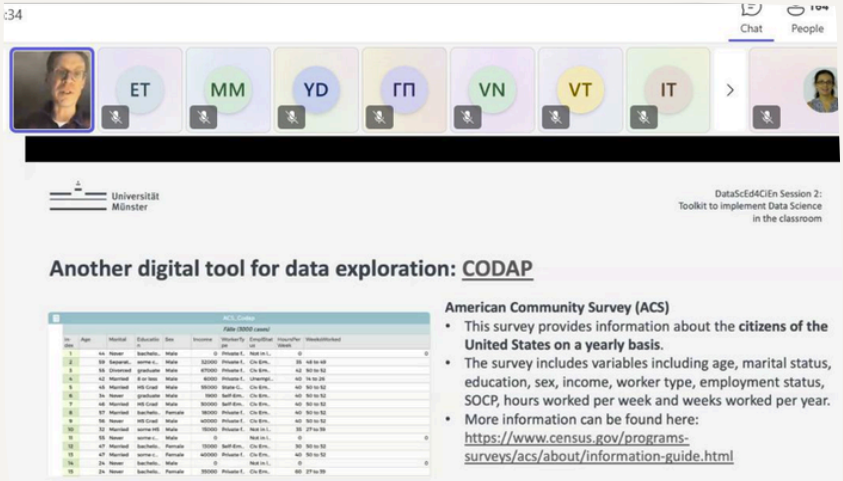
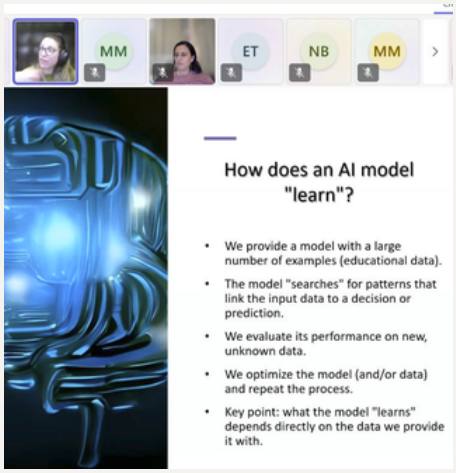
SESSION 2: Tools, Data, and Artificial Intelligence in the Classroom

9th February 2026

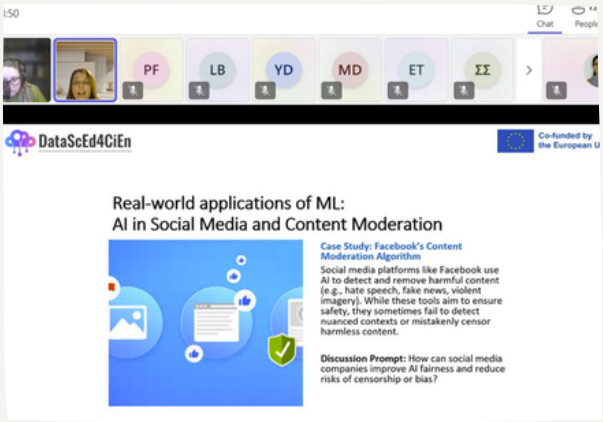
The second session focused on practical tools and applications, equipping participants with strategies to bring data science into the classroom.

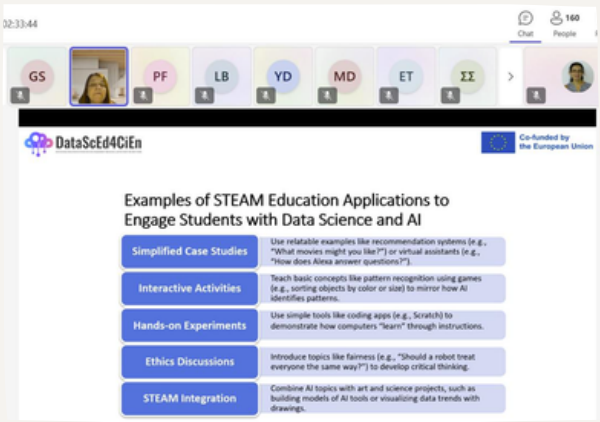
Prof. Daniel Frischemeier introduced tools for data exploration, including CODAP, demonstrating how students can visualise and interpret data through graphs, distributions, and statistical measures.





Participants also explored Artificial Intelligence and Machine Learning in education:
Dr Georgia Solomonidou discussed opportunities and challenges of AI in education
Dr Yianna Danidou introduced tools such as Teachable Machine for classroom use
Dr Maria Meletiou connected AI and Machine Learning with data science literacy and STEAM education





The session emphasised that teaching data science goes beyond tools — focusing on interpretation, critical thinking, and real-world relevance.

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SESSION 3: From Theory to Practice – Classroom Implementation

Date: 5th March 2026

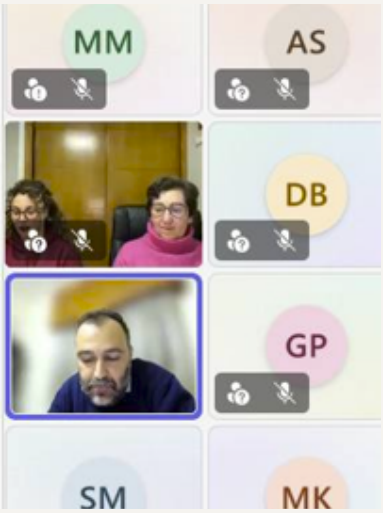
The final session focused on real classroom implementation, led by educators and researchers from partner schools.

Prof. Ana Serradó Bayés presented a range of STEAM scenarios addressing social justice issues such as migration, gender equality, sustainability, and climate action, all aligned with the Sustainable Development Goals.

Michalis Gavrielides guided participants through data practices in action, including problem formulation, data analysis, and communicating results within classroom scenarios.

Maria Lucia Vargas presented the project outcomes of the STEAM initiatives, showcasing results from classroom implementations and the educational impact across participating countries.

These real-world examples demonstrated how students can engage in authentic, interdisciplinary learning, developing both data literacy and civic awareness.



Looking ahead

The Professional Development program has laid a strong foundation for the continued integration of data science in STEAM education. By equipping educators with innovative tools, pedagogies, and real classroom examples, the project continues to support the development of critical thinkers, responsible citizens, and future-ready learners.